## PATENT COOPERATION TREAT

## PCT

YREC'D	1	5	JUL	2005	
WIPO				PCT	

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P/27047.WO	FOR FURTHER ACTION		See Form PCT/IPEA/416			
International application No. PCT/GB2004/002716	International filing date (day/month/year) 24.06.2004		Priority date (day/month/year) 24.06.2003			
International Patent Classification (IPC) or na	ational classification and IP	С		<del>~</del>		
				••		
Applicant	<del></del>			<del></del>		
W. & J. LEIGH & CO. et al						
1. This report is the international pre Authority under Article 35 and trar	liminary examination repairsmitted to the applicant	oort, established by the according to Article 3	is International Preliminary Examining 6.			
2. This REPORT consists of a total of	of 5 sheets, including th	is cover sheet.				
3. This report is also accompanied b						
a.   sent to the applicant and to						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
Sheets which supersed beyond the disclosure Supplemental Box.	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the					
b.   (sent to the International E	Bureau only) a total of (in	dicate type and numb	er of electronic carrier(s)) , containing	1 2		
sequence listing and/or tab Box Relating to Sequence	oles related thereto, in co	omputer readable form	only, as indicated in the Supplements	al		
bear Holding to Coquerioc	Lioting (See Section 602	2 Of the Administrative	instructions).			
4. This report contains indications re	lating to the following ite	ems:				
	nion					
☐ Box No. II Priority						
☐ Box No. III Non-establishm	ent of opinion with rega	rd to novelty, inventive	step and industrial applicability			
☐ Box No. IV Lack of unity of		•				
Box No. V Reasoned state applicability; cit	ement under Article 35(2 ations and explanations	) with regard to novelt supporting such state	y, inventive step or industrial ment			
Box No. VI Certain docume	ents cited					
l	in the international appl					
☐ Box No. VIII Certain observa	ations on the internationa	al application				
Date of submission of the demand		Date of completion of the				
and of dabinioologi of the delitaria		Date of completion of the	nis report			
04.12.2004		04.07.2005				
Name and mailing address of the international		Authorized Officer				
preliminary examining authority:  European Patent Office		Telephone No. +49 89	2399- 8305 September Poloniem	· Kud		
D-80298 Munich				pour Pay		
Fax: +49 89 2399 - 4465	opina a	Morgais,	O. Silve out of the ou	NO.		

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/002716

	Box N	lo. I Basis of the report					
•	With r	Vith regard to the <b>language</b> , this report is based on the international application in the language in which it was led, unless otherwise indicated under this item.					
	W	This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:  International search (under Rules 12.3 and 23.1(b))  publication of the international application (under Rule 12.4)  international preliminary examination (under Rules 55.2 and/or 55.3)					
2.	have	regard to the <b>elements</b> * of the international application, this report is based on <i>(replacement sheets which been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this t as "originally filed" and are not annexed to this report):</i>					
	Desci	ription, Pages					
	1-17	as originally filed					
	Clain	ns, Numbers					
1-17		as originally filed					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing					
3	,	The amendments have resulted in the cancellation of:  the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):					
4	had Sup	This report has been established as if (some of) the amendments annexed to this report and listed below not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the plemental Box (Rule 70.2(c)).  the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):  If item 4 applies, some or all of these sheets may be marked "superseded."					
	*	II Item 4 appries, some or arr or chese prices may be made a					

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 2

2,5,6,8-11,14,15,16

No: Claims 1,3-4,7,12,13,17

Inventive step (IS) Yes: Claims 2,5,6,8-11,14,15,16

No: Claims

Industrial applicability (IA) Yes: Claims 1-17

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

#### Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

and /or

2. Non-written disclosures (Rule 70.9)

see separate sheet

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/GB2004/002716

### Point V:

### Novelty:

D1 WO03066749 discloses also a liquid intumescent coating composition comprising a resin system comprising a polymeric component, an ethylenically unsaturated monomer (page 6 lines 3-13) and an intumescent agent (page 10 line 5- page 11 line 21) and a free radical initiator (see examples and page 4 line 17). The coating has a minimized drying time page 3 lines 9-10.

The subject-matter of claims 1,3,4,7,12,13,16,17 is not novel over D1.

D1 does not disclose the use of a solid thermoplastic resin and not the polymeric component of claims 5,6,10 or monomer of claims 8,11.

The method of curing the composition (claim 13) is also not novel over D1.

D1 does not disclose the use of organic peroxides (claims 14 and 15) or a cure temperature of 20°C (claim 16). Claim 17 uses a technical feature relating to the coating obtained after curing and cannot characterize the method claim (claim 13).

D2 WO02096996 and D3 GB2029837 disclose an intumescent coating composition comprising a polymer resin and intumescent ingredients. D2 and D3 do not disclose the use of an ethylenically unsaturated monomer as in claims 1 and 13 of the application. The subject-matter of claims 1-17 is novel over D2,D3.

### Inventive step:

D1 is a document according to Rule 64.3 PCT and Rule 70.10 PCT and is not part of the prior art to assess on the inventive step of the claims.

D2 discloses the same intumescent ingredients used to provide a coating displaying faster drying times and allowing a higher thickness of the coating. D2 is chosen as closest prior art.

The main feature characterizing the subject-matter of claims 2,5,6,8-11,14,15,16 is nevertheless the presence of an ethylenically unsaturated monomer in the intumescent composition. The application demonstrate that the presence of the monomer improves the drying times of the coating and allows higher thicknesses of coatings (objective technical problem) as the compositions of D2.

The use of an ethylenically unsaturated monomer to solve the technical problem is not suggested in the prior art documents D2,D3.

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/GB2004/002716

The subject-matter of claims 2,5,6,8-11,14,15,16 is inventive over D2-D3.

Note: Any technical feature (like the use of an organic peroxide) added to claims 1 and 13 and providing these claims with novelty over D1, would render the claims 1-17 novel and inventive over D2-D3 as D1 is not prior art for inventive step assessment.